



# SEMICONDUCTOR MACROATOMS

Basic Physics and  
Quantum-device  
Applications

edited by  
Fausto Rossi

Imperial College Press

# Semiconductor Macroatoms Basics Physics And Quantumdevice Applications

**Ying Fu**



## **Semiconductor Macroatoms Basics Physics And Quantumdevice Applications:**

*Semiconductor Macroatoms: Basics Physics And Quantum-device Applications* Fausto Rossi, 2005-11-10 This book discusses the basic physics of semiconductor macroatoms at the nanoscale as well as their potential application as building blocks for the realization of new generation quantum devices It provides a review on state of the art fabrication and characterization of semiconductor quantum dots aimed at implementing single electron exciton devices for quantum information processing and communication After an introductory chapter on the fundamentals of quantum dots a number of more specialized review articles presents a comprehensive picture of this rapidly developing field specifically including strongly multidisciplinary topics such as state of the art nanofabrication and optical characterization fully microscopic theoretical modeling of nontrivial many body processes as well as design and optimization of novel quantum device architectures Sample Chapter s Semiconductor Macroatoms Fausto Rossi, 2005 This book discusses the basic physics of semiconductor macroatoms at the nanoscale as well as their potential application as building blocks for the realization of new generation quantum devices It provides a review on state of the art fabrication and characterization of semiconductor quantum dots aimed at implementing single electron exciton devices for quantum information processing and communication After an introductory chapter on the fundamentals of quantum dots a number of more specialized review articles presents a comprehensive picture of this rapidly developing field specifically including strongly multidisciplinary topics such as state of the art nanofabrication and optical characterization fully microscopic theoretical modeling of nontrivial many body processes as well as design and optimization of novel quantum device architectures Sample Chapter s Optical Generation and Control of Quantum Coherence in Semiconductor Nanostructures Gabriela Slavcheva, Philippe Roussignol, 2010-06-01 The fundamental concept of quantum coherence plays a central role in quantum physics cutting across disciplines of quantum optics atomic and condensed matter physics Quantum coherence represents a universal property of the quantum systems that applies both to light and matter thereby tying together materials and phenomena Moreover the optical coherence can be transferred to the medium through the light matter interactions Since the early days of quantum mechanics there has been a desire to control dynamics of quantum systems The generation and control of quantum coherence in matter by optical means in particular represents a viable way to achieve this longstanding goal and semiconductor nanostructures are the most promising candidates for controllable quantum systems Optical generation and control of coherent light matter states in semiconductor quantum nanostructures is precisely the scope of the present book Recently there has been a great deal of interest in the subject of quantum coherence We are currently witnessing parallel growth of activities in different physical systems that are all built around the central concept of manipulation of quantum coherence The burgeoning activities in solid state systems and semiconductors in particular have been strongly driven by the unprecedented control of coherence that previously has been demonstrated in quantum optics of atoms and molecules and is now taking advantage of the remarkable

advances in semiconductor fabrication technologies A recent impetus to exploit the coherent quantum phenomena comes from the emergence of the quantum information paradigm      **Theory of Semiconductor Quantum Devices** Fausto Rossi,2011-01-13 Primary goal of this book is to provide a cohesive description of the vast field of semiconductor quantum devices with special emphasis on basic quantum mechanical phenomena governing the electro optical response of new generation nanomaterials The book will cover within a common language different types of optoelectronic nanodevices including quantum cascade laser sources and detectors few electron exciton quantum devices and semiconductor based quantum logic gates The distinguishing feature of the present volume is a unified microscopic treatment of quantum transport and coherent optics phenomena on ultraspace and time scales as well as of their semiclassical counterparts

**Electronic Enclosures, Housings and Packages** Frank Suli,2018-11-01 Electronic Enclosures Housings and Packages considers the problem of heat management for electronics from an encasement perspective It addresses enclosures and their applications for industrial electronics as well as LED lighting solutions for stationary and mobile markets The book introduces fundamental concepts and defines dimensions of success in electrical enclosures Other chapters discuss environmental considerations shielding standardization materials selection thermal management product design principles manufacturing techniques and sustainability Final chapters focus on business fundamentals by outlining successful technical propositions and potential future directions      **Semiconductor Quantum Bits** Fritz Henneberger,Oliver

Benson,2016-04-19 This book highlights state of the art qubit implementations in semiconductors and provides an extensive overview of this newly emerging field Semiconductor nanostructures have huge potential as future quantum information devices as they provide various ways of qubit implementation electron spin electronic excitation as well as a way to transfer

The British National Bibliography Arthur James Wells,2006      *The Physics of Semiconductors* Kevin F. Brennan,1999-02-13 Modern fabrication techniques have made it possible to produce semiconductor devices whose dimensions are so small that quantum mechanical effects dominate their behavior This book describes the key elements of quantum mechanics statistical mechanics and solid state physics that are necessary in understanding these modern semiconductor devices The author begins with a review of elementary quantum mechanics and then describes more advanced topics such as multiple quantum wells He then discusses equilibrium and nonequilibrium statistical mechanics Following this introduction he provides a thorough treatment of solid state physics covering electron motion in periodic potentials electron phonon interaction and recombination processes The final four chapters deal exclusively with real devices such as semiconductor lasers photodiodes flat panel displays and MOSFETs The book contains many homework exercises and is suitable as a textbook for electrical engineering materials science or physics students taking courses in solid state device physics It will also be a valuable reference for practising engineers in optoelectronics and related areas

*Semiconductor Physics and Applications* M. Balkanski,Richard Fisher Wallis,2000-08-31 This textbook covers the basic

physics of semiconductors and their applications to practical devices with emphasis on the basic physical principles upon which these devices operate Extensive use of figures is made to enhance the clarity of the presentation and to establish contact with the experimental side of the topic Graduate students and lecturers in semiconductor physics condensed matter physics electromagnetic theory and quantum mechanics will find this a useful textbook and reference work *Physics of Semiconductor Devices* J.-P. Colinge,C.A. Colinge,2002-05-31 Physics of Semiconductor Devices covers both basic classic topics such as energy band theory and the gradual channel model of the MOSFET as well as advanced concepts and devices such as MOSFET short channel effects low dimensional devices and single electron transistors Concepts are introduced to the reader in a simple way often using comparisons to everyday life experiences such as simple fluid mechanics They are then explained in depth and mathematical developments are fully described Physics of Semiconductor Devices contains a list of problems that can be used as homework assignments or can be solved in class to exemplify the theory Many of these problems make use of Matlab and are aimed at illustrating theoretical concepts in a graphical manner **Low-Dimensional Semiconductor Structures** Keith Barnham,Dimitri Vvedensky,2001-07-12 Low Dimensional Semiconductor Structures provides a seamless atoms to devices introduction to the latest quantum heterostructures It covers their fabrication their electronic optical and transport properties their role in exploring physical phenomena and their utilization in devices The authors begin with a detailed description of the epitaxial growth of semiconductors They then deal with the physical behaviour of electrons and phonons in low dimensional structures A discussion of localization effects and quantum transport phenomena is followed by coverage of the optical properties of quantum wells They then go on to discuss non linear optics in quantum heterostructures The final chapters deal with semiconductor lasers mesoscopic devices and high speed heterostructure devices The book contains many exercises and comprehensive references It is suitable as a textbook for graduate level courses in electrical engineering and applied physics It will also be of interest to engineers involved in the development of semiconductor devices Quantum Semiconductor Structures Claude Weisbuch,Borge Vinter,1991-05-12 A review of the fundamentals of quantified semiconductor structures first seen as an introductory chapter in Volume 24 of Semiconductors and Semimetals which covers the basics of electronic states optical interactions and quantum transport in two dimensional quantified systems **Semiconductor Physics and Applications** Minko Balkanski,2000 This textbook combines a thorough theoretical treatment of the basic physics of semiconductors with applications to practical devices by putting special emphasis on the physical principles upon which these devices operate Topics treated are the detailed band structure of semiconductors the effect of impurities on electronic states and semiconductor statistics Also discussed are lattice dynamical transport and surface properties as well as optical magneto optical and electro optical properties The applied part of the book treats p n junctions bipolar junction transistors semiconductor lasers and photo devices after which the subject of heterostructures and superlattices is taken up with coverage of electronic lattice dynamical optical and

transport properties The book concludes with treatments of metal semiconductor devices such as MOSFETs and devices based on heterostructures Graduate students and lecturers in semiconductor physics condensed matter physics electromagnetic theory and quantum mechanics will find this a useful textbook and reference work R sum de l diteur

**Spectroscopy of Semiconductors** Wei Lu,Ying Fu,2018-07-31 The science and technology related to semiconductors have received significant attention for applications in various fields including microelectronics nanophotonics and biotechnologies Understanding of semiconductors has advanced to such a level that we are now able to design novel system complexes before we go for the proof of principle experimental demonstration This book explains the experimental setups for optical spectral analysis of semiconductors and describes the experimental methods and the basic quantum mechanical principles underlying the fast developing nanotechnology for semiconductors Further it uses numerous case studies with detailed theoretical discussions and calculations to demonstrate the data analysis Covering structures ranging from bulk to the nanoscale it examines applications in the semiconductor industry and biomedicine Starting from the most basic physics of geometric optics wave optics quantum mechanics solid state physics it provides a self contained resource on the subject for university undergraduates The book can be further used as a toolbox for researching and developing semiconductor

**Physical Models of Semiconductor Quantum Devices** Ying Fu,2013-08-29 The science and technology relating to nanostructures continues to receive significant attention for its applications to various fields including microelectronics nanophotonics and biotechnology This book describes the basic quantum mechanical principles underlining this fast developing field From the fundamental principles of quantum mechanics to nanomaterial properties from device physics to research and development of new systems this title is aimed at undergraduates graduates postgraduates and researchers

Physics and Applications of Semiconductor Microstructures Milan Jaros,1989 Textbook for third year undergraduate to first year graduate students in physics and microelectronics Outlines concepts concerning the description and applications of novel semiconductor microstructures such as quantum wells superlattices and heterojunction microdevices in general e g lasers transistors optical detectors and switches Annotation copyrighted by Book News Inc Portland OR

*Modern Semiconductor Physics and Device Applications* Vitalii Dugaev,Vladimir Litvinov,2021-11-14 This textbook provides a theoretical background for contemporary trends in solid state theory and semiconductor device physics It discusses advanced methods of quantum mechanics and field theory and is therefore primarily intended for graduate students in theoretical and experimental physics who have already studied electrodynamics statistical physics and quantum mechanics It also relates solid state physics fundamentals to semiconductor device applications and includes auxiliary results from mathematics and quantum mechanics making the book useful also for graduate students in electrical engineering and material science Key Features Explores concepts common in textbooks on semiconductors in addition to topics not included in similar books currently available on the market such as the topology of

Hilbert space in crystals Contains the latest research and developments in the field Written in an accessible yet rigorous manner     *Fundamentals of Semiconductor Physics and Devices* ,1997 This book is an introduction to the principles of semiconductor physics linking its scientific aspects with practical applications It is addressed to both readers who wish to learn semiconductor physics and those seeking to understand semiconductor devices It is particularly well suited for those who want to do both     *Basic Semiconductor Physics* Chihiro Hamaguchi,2013-04-17 More than 50 years have passed since the invention of the transistor in December 1947 The study of semiconductors was initiated in the 1930s but we had to wait for 30 years till the 1960s to understand the physics of semiconductors When the transistor was invented it was still unclear whether germanium had a direct gap or indirect gap The author started to study semiconductor physics in 1960 and the physics was very difficult for a beginner to understand The best textbook of semiconductors at that time was Electrons and Holes in Semiconductors by W Shockley but it required a detailed knowledge of solid state physics to understand the detail of the book In that period junction transistors and Si bipolar transistors were being produced on a commercial basis and industrialization of semiconductor technology was progressing very rapidly Later semiconductor devices were integrated and applied to computers successfully resulting in a remarkable demand for semiconductor memories in addition to processors in the late 1970s to 1980s Now we know that semiconductors play the most important role in information technology as the key devices and we cannot talk about the age of information technology without semiconductor devices On the other hand the physical properties of semiconductors such as the electrical and optical properties were investigated in detail in the 1950s leading to the understanding of the energy band structures     **Quantum Information Processing with Semiconductor Macroatoms** Eliana Biolatti,2002

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